REMEC

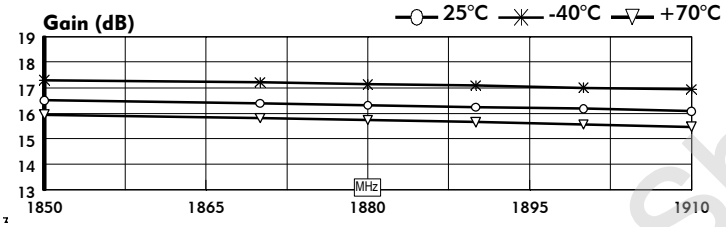
SM Hybrid Amplifier

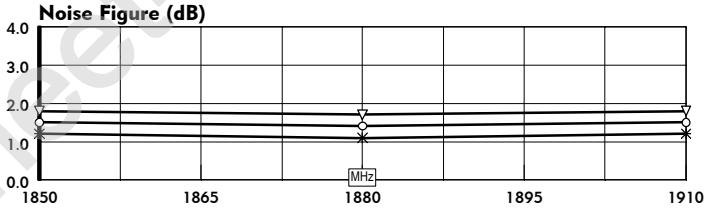
QBH-8707

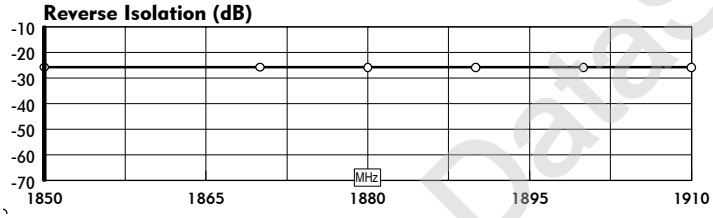
- **1850-1910 MHz bandwidth**
- **Hybrid surface mount package**
- **High intercept point, +30 dBm typical IP3**
- **Low noise figure**
- **12 Vdc operation**

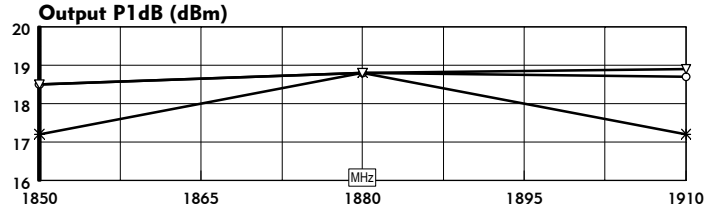
Parameters	Typical 25°C	Guaranteed -40 to +70°C	Units
Frequency range	1850 - 1910		MHz
Small signal gain	16.0		dB
Gain flatness	0.5	0.8	dB p-p
Reverse isolation	26	25	dB
Gain vs. Temperature		+1.5/	dB Max
VSWR Input	1.5:1	2.0:1	
Output	1.4:1	2.0:1	
1 dB compression	+18.5	+16	dBm
Output intercept point			
3rd Order	+30	+28	dBm
2nd Order			dBm
Noise figure	1.5	2.0	dB
DC supply voltage*	12		Vdc
DC supply current	85	100	mA
Gain vs. Vdc			dB/Volt
Package/Housing	LCSM (E52-19422)		

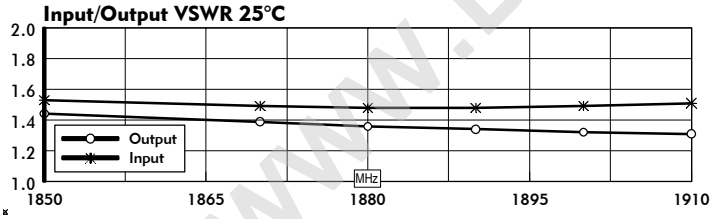
*all specification ratings are based on DC supply voltage ± 1%

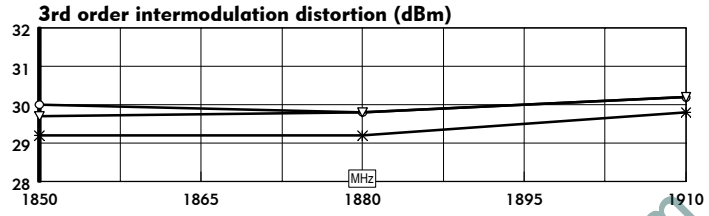


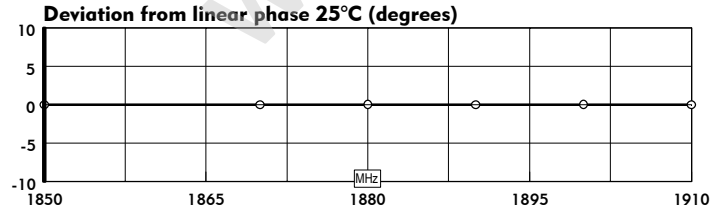












Typical S-Parameter Data

	S11		S21		S12		S22	
MHz	dB	Ang	dB	Ang	dB	Ang	dB	Ang
1850	-13.6	-29.9	16.5	174.1	-25.7	94.7	-15.2	-13.8
1870	-14.2	-47.8	16.4	167.4	-25.7	88.7	-16.3	-24.0
1880	-14.3	-58.3	16.3	164.1	-25.8	85.7	-17.0	-29.1
1890	-14.3	-68.7	16.2	160.7	-25.8	82.6	-17.5	-34.3
1900	-14.1	-80.2	16.2	157.3	-25.9	79.6	-18.2	-40.0
1910	-13.9	-90.4	16.1	153.9	-25.9	76.1	-18.6	-46.0

Absolute Maximum Ratings

Power supply voltage
- Sustaining ..... +18.0 Vdc
- Pulse (transient) ..... +20.0 Vdc

Temperature
- Operating ..... -55 to +125°C
- Storage ..... -65 to +150°C

Maximum input drive ..... 1.8 Vrms

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